

SECURITY INFORMATION

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13 November 1953

MEMORANDUM FOR THE RECORD

SUBJECT: Meeting with [REDACTED] 50X1
 P 125, Sequenced Camera; P 113, IR Flash Unit;
 P 101, IR Commo System

1. On 12 November 1953 the undersigned met with [REDACTED] 50X1

2. Concerning the electronic infra-red flash unit, it was decided:

a. That the film used in testing would be standard Kodak 35mm Infra-Red film.

b. That the first unit will be designed to have the infra-red effectiveness of a type 5-R flash bulb.

c. The first attempt will be made to use their 100 watt-second unit with suitable circuit changes to get the I-R output of a 5-R bulb.

d. If the standard xenon bulb will not produce enough I-R, [REDACTED] will investigate the possibility of having special tubes filled by [REDACTED] 50X1
 50X1

e. [REDACTED] will look into the use of different filter materials for the unit. 50X1

f. The undersigned will provide [REDACTED] with curves on the new faster types of Infra-Red sensitive films. 50X1

g. [REDACTED] will investigate the feasibility of a small continuous reaching infra-red light meter. 50X1

h. The reflector used will be a standard type giving 100% light output on the reflector axis and 50% light output at 25° either side of the axis.

i. The unit

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i. The unit will be set up for 6 volt wet cell, 110/200 volt 50-60cycle AC and DC power and operation off a self-contained battery supply.

j. [] will look forward to the problem of making a more powerful unit with a reflecting system that can be focussed to give a cone of light of variable cone angle. The project engineer is []

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3. Concerning the I.R. Commo System, it was decided:

a. That APD provide [] with the necessary Ampec Units, tubes, transformers and batteries to make the first eight units (4 systems). Also, APD will provide the tripods and pan heads.

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b. The auto-collimators shall be adjusted roughly with the pan head on the tripod. Fine adjustment shall be made in horizontal and vertical planes by two tangent screw devices on the pan head.

c. The transmitting light shall be capable of being adjusted in two directions. This adjustment being made at the time of assembly. The project engineer is []

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4. [] has a coding device with adjustable cams which can be set so as to trip a switch at time intervals ranging from 1/5 second to 6 seconds. The motor can be changed for D.C. operation.

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